

**MARKED-UP VERSION OF AMENDED CLAIMS:**

30. (new) A coated reaction chamber comprising  
a reaction chamber;  
an inner wall of the reaction chamber;  
a standard coating disposed on the inner wall of the reaction chamber  
immediately with native, synthetically or enzymatically prepared  
standard nucleic acids, wherein the standard coating is performed non-  
covalently with a mixture of calibrated nucleic acids, the standard nucleic  
acids and carrier nucleic acids at the surface of the inner walls of the  
reaction chambers, which inner walls of the reaction chambers do not  
require any chemical nor biochemical modification prior to the coating.

31. (new) The coated reaction chamber according to claim 30, wherein  
the reaction chamber comprises glass or plastic vessels or glass  
capillaries.

32. (new) The coated reaction chamber according to claim 30, wherein  
the standard nucleic acids include a member of the group consisting of

DNA, RNA, synthetic equivalents of DNA and/or RNA, as well as dU-containing DNA .

33. (new) The coated reaction chamber according to claim 30, wherein the standard nucleic acids comprise

- a) a DNA solution is used comprising a minimum sequence homology to the nucleic acid compound to be analyzed for a dilution of DNA standards, and
- b) a tRNA solution is used for a dilution of the RNA standards.

34.(new) The coated reaction chamber according to claim 30, wherein said carrier nucleic acid is a DNA of the lambda phage, which carrier nucleic acid is converted into readily soluble fragments of a mean length of about 1 - 2 kb by means of ultrasonic treatment.

#### REMARKS

Claims 1 through 29 continue to be in the case.

New claims 30 through 34 are being submitted.

The new claims have the following basis:

New claim: Basis

30 claim 1

31 claim 2

32 claim 3

33 claim 4

34 claim 5

Entry of claims 30 through 34 is respectfully requested.

Respectfully submitted,

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